

PROJECT DESCRIPTION

- I. GENERAL
THIS PROJECT INVOLVES INSTALLATION OF APS/CPS PEDESTRIAN EQUIPMENT ON THE NORTH, SOUTH, AND WEST LEGS OF THE INTERSECTION OF MD 28 (DARNESTOWN ROAD) AT RIFFLE FORD ROAD/SEURAT DRIVE IN MONTGOMERY COUNTY. MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.
- II. INTERSECTION OPERATION
THIS INTERSECTION OPERATES IN A NEMA SIX-PHASE SEMI-TRAFFIC-ACTUATED MODE. THERE ARE EXCLUSIVE/PERMISSIVE LEFT-TURN PHASES FOR EASTBOUND AND WESTBOUND MD 28. THE RIFFLE FORD ROAD AND SEURAT DRIVE APPROACHES OPERATE CONCURRENTLY.
AN ALTERNATE PEDESTRIAN PHASE ACROSS THE WEST LEG OF THE INTERSECTION IS PROVIDED.
A CONCURRENT PEDESTRIAN PHASE IS PROVIDED ACROSS THE NORTH AND SOUTH LEGS OF RIFFLE FORD ROAD/SEURAT DRIVE.
- III. PEDESTRIAN OPERATION
NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTONS TO CROSS THE NORTH, SOUTH, AND WEST LEGS OF THE INTERSECTION ARE TO BE PROVIDED. WHEN THE PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE:

NORTH: "WAIT TO CROSS RIFFLE FORD AT DARNESTOWN, WAIT."
SOUTH: "WAIT TO CROSS SEURAT AT DARNESTOWN, WAIT."
WEST: "WAIT TO CROSS DARNESTOWN AT RIFFLE FORD, WAIT."

WHEN THE WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS

THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

DISTRICT 3

MS. ANYESHA MOOKHERJEE (MO)
ASSISTANT DISTRICT ENGINEER - TRAFFIC
301-513-7404/301-513-7358

MR. VICTOR GRAFTON
DISTRICT ENGINEER - UTILITIES
301-513-7350

MR. DUANE BERNARD
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
301-513-7385

MR. THOMAS FOUNTAIN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
301-513-7304

MONTGOMERY COUNTY

MR. ROBERT RICKETTS
TECHNICAL CENTER SUPERVISOR
PHONE NUMBER 240-876-3681

MR. KAMAL HAMUD
MONTGOMERY COUNTY-TRAFFIC ENGINEERING
PHONE NUMBER 301-777-8761

OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
CHIEF SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
CHIEF SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING
STANDARD PLATES FOR TRAFFIC CONTROL: MD 104.03-11, MD 104.04-13 THROUGH MD 104.04-16.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
900000	1	EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS

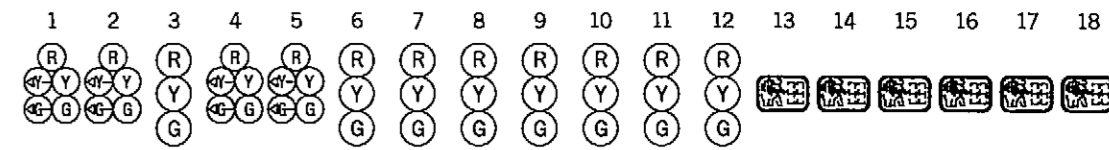
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC (PER INTERSECTION)
201032	30	CY	CLASS 2 EXCAVATION
203030	3	CY	TEST PIT EXCAVATION
504150	3	TON	HOT MIX ASPHALT SUPERPAVE 9.5MM FOR SURFACE, PG76-22, LEVEL-3
520109	6	SY	3 INCH GRADED AGGREGATE BASE COURSE
585621	440	LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	440	LF	REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH
600000	115	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	22	LF	TYPE A CURB ANY HEIGHT OR DEPTH
655105	915	SF	5 INCH CONCRETE SIDEWALK
655120	60	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
704345	14	SY	PLACING FURNISHED TOPSOIL 4 INCH DEPTH
705500	14	SY	TURFGRASS ESTABLISHMENT
800000	1	EA	2-WIRE APS CENTRAL CONTROL UNIT
800000	1	EA	ADJUST HANDHOLE TO GRADE AND REPLACE FRAME AND COVER
800000	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	6	EA	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	2	EA	IP-BASED VIDEO DETECTION CAMERA & ANY LENGTH LEAD-IN CABLE
800000	6	EA	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
800000	80	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
800000	26	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1	EA	THIRD PARTY CONCRETE TESTING (PER INTERSECTION)
802501	110	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105	990	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1020	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE
PROPERTY OF THE CONTRACTOR.

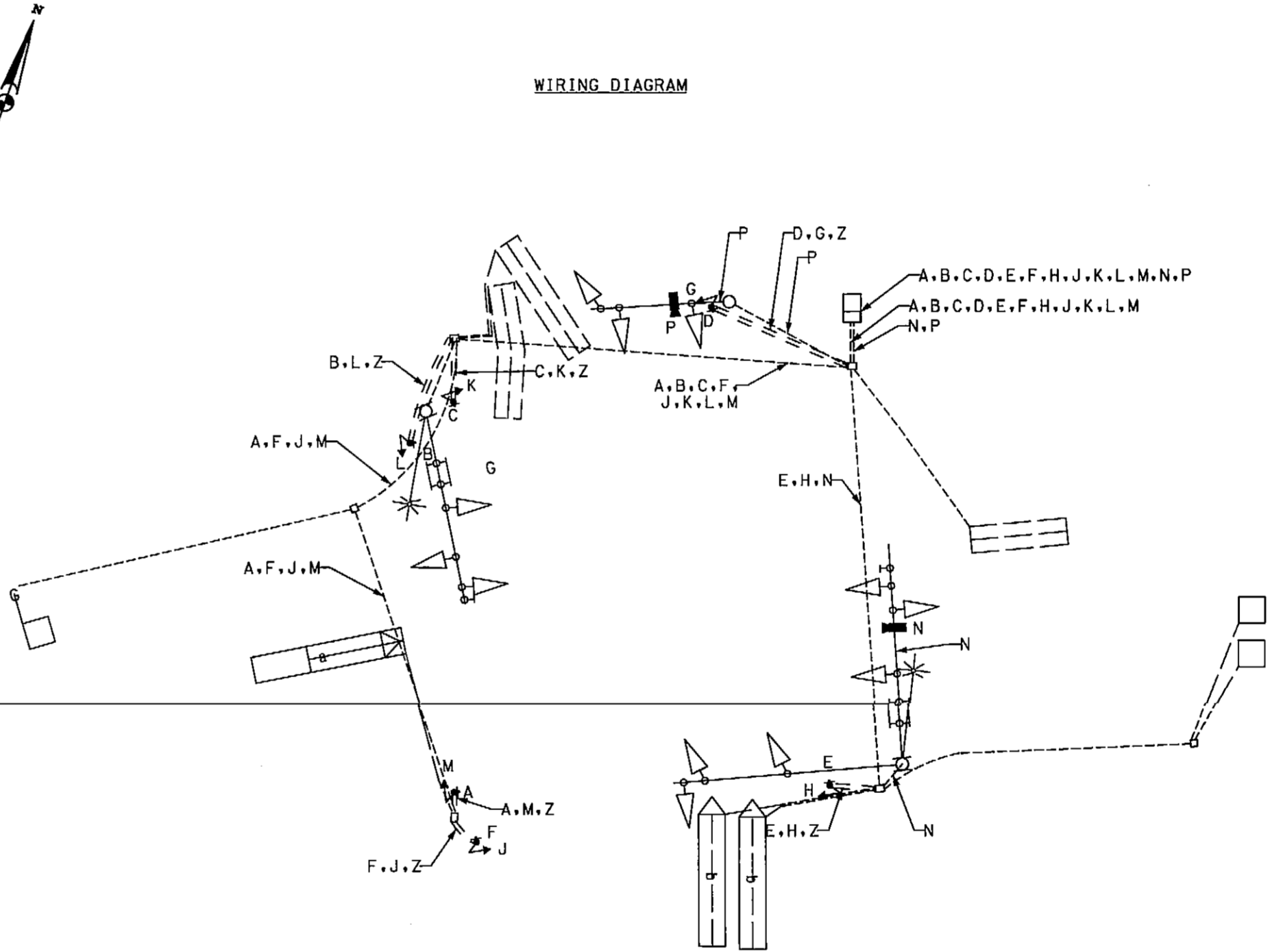


PHASING CHART



PHASE 1 & 5	<GR	<GR	R	<GR	<GR	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1&6, 2&5 OR 2&6.																		
PHASE 1 & 6	<GG	<GG	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 & 6 CHANGE	<VY	<VY	Y	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	R	R	R	<GG	<GG	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	R	R	R	<VY	<VY	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	G	G	G	G	G	G	R	R	R	R	R	R	R	FLOW	FLOW	FLOW	FLOW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE ALT. 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK
PED CLEAR	R	R	R	R	R	R	G	G	G	G	G	G	G	DW	DW	DW	DW	FLOW	FLOW
ALT. 4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	FLY	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

- A,B,C,D,E,F ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
G,H,J,K,L,M ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
N,P VIDEO DETECTION CONTROL CABLE
Z NO. 6 AWG STRANDED BARE COPPER GROUND WIRE.



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 (DARNESTOWN ROAD) AT
RIFFLE FORD ROAD/SEURAT DRIVE
QUINCE ORCHARD, MARYLAND

GENERAL INFORMATION SHEET

SCALE: N.T.S. ADVERTISED DATE: MARCH 2013 CONTRACT NO. XY1515185

DESIGNED BY AMH/JVB COUNTY MONTGOMERY
DRAWN BY JVB LOGMILE 15002815.21
CHECKED BY JFL TMS NO. L735
F.A.P. NO. - TOD NO. -

TS NO.3602B GI DRAWING SC-3 OF 3 SHEET NO. 21 OF 24